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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Image Retrieval from the World Wide Web: Issues, Techniques, and Systems](#)

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Publisher: ACM Press

Full text available: pdf(294.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

**Keywords:** Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

2 [Content-based multimedia information retrieval: State of the art and challenges](#)

Michael S. Lew, Nicu Sebe, Chabane Djeraba, Ramesh Jain

February 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(220.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Extending beyond the boundaries of science, art, and culture, content-based multimedia information retrieval provides new paradigms and methods for searching through the myriad variety of media all over the world. This survey reviews 100&plus; recent articles on content-based multimedia information retrieval and discusses their role in current research directions which include browsing and search paradigms, user studies, affective computing, learning, semantic queries, new features and media typ ...

**Keywords:** Multimedia information retrieval, audio retrieval, human-computer interaction, image databases, image search, multimedia indexing, video retrieval

3 [Visual Keyword Image Retrieval Based on Synergetic Neural Network for Web-Based Image Search](#)

Tong Zhao, Lilian H. Tang, Horace H. S. Ip, Feihu Qi

July 2001 **Real-Time Systems**, Volume 21 Issue 1-2

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Feature extraction and similarity measure are two basic key issues in image retrieval. Combining the advantages of SNN in image recognition and selective attention for image retrieval, a novel visual keywords-driven image retrieval approach based on these properties has been proposed. By using a predefined set of visual keywords as prototype patterns stored with the SNN and then measuring the degree of similarity of the stored images to the visual keywords, we show that such a visual ...

**Keywords:** Affine-invariant feature, Synergetic neural network, Trademark image retrieval, Visual keywords, web-based multimedia search

#### 4 An Image Database System with Support for Traditional Alphanumeric Queries and Content-Based Queries by Example

Daniel L. Swets, Yogesh Pathak, John J. Weng

November 1998 **Multimedia Tools and Applications**, Volume 7 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Large image databases are commonly employed in applications like criminal records, customs, plant root databases, and voters' registration databases. Efficient and convenient mechanisms for database organization and retrieval are essential. A quick and easy-to-use interface is needed which should also mesh naturally with the overall image management system. In this paper we describe the design and implementation of an integrated image database system. This system offers support ...

**Keywords:** alphanumeric query, content-based retrieval, image database, query-by-example, similarity-based query

#### 5 Mobility Patterns

Cédric Mouza, Philippe Rigaux

December 2005 **Geoinformatica**, Volume 9 Issue 4

**Publisher:** Kluwer Academic Publishers

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present a data model for tracking mobile objects and reporting the result of queries. The model relies on a discrete view of the spatio-temporal space, where the 2D space and the time axis are respectively partitioned in a finite set of user-defined areas and in constant-size intervals. We define a generic query language to retrieve objects that match mobility patterns describing a sequence of moves. We also identify a s ...

**Keywords:** mobility patterns, online evaluation, spatio-temporal applications

#### 6 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

**Publisher:** ACM Press

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### 1 [Query by humming: musical information retrieval in an audio database](#)



Asif Ghias, Jonathan Logan, David Chamberlin, Brian C. Smith

 January 1995 **Proceedings of the third ACM international conference on Multimedia**

Publisher: ACM Press

 Full text available: [htm\(27.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** multimedia databases, musical information retrieval, pitch tracking

### 2 [Music digital libraries: A comparison of melodic database retrieval techniques using sung queries](#)



Ning Hu, Roger B. Dannenberg

 July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press.

 Full text available: [pdf\(248.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query-by-humming systems search a database of music for good matches to a sung, hummed, or whistled melody. Errors in transcription and variations in pitch and tempo can cause substantial mismatch between queries and targets. Thus, algorithms for measuring melodic similarity in query-by-humming systems should be robust. We compare several variations of search algorithms in an effort to improve search precision. In particular, we describe a new frame-based algorithm that significantly outperforms ...

**Keywords:** dynamic programming, melodic comparison, melodic search, music information retrieval (MIR), sung query

### 3 [Image Retrieval from the World Wide Web: Issues, Techniques, and Systems](#)



M. L. Kherfi, D. Ziou, A. Bernardi

 March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(294.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

**Keywords:** Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

#### 4 Proximal nodes: a model to query document databases by content and structure



Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(550.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

**Keywords:** expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

#### 5 Content-based multimedia information retrieval: State of the art and challenges



Michael S. Lew, Nicu Sebe, Chabane Djeraba, Ramesh Jain

February 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(220.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Extending beyond the boundaries of science, art, and culture, content-based multimedia information retrieval provides new paradigms and methods for searching through the myriad variety of media all over the world. This survey reviews 100&plus; recent articles on content-based multimedia information retrieval and discusses their role in current research directions which include browsing and search paradigms, user studies, affective computing, learning, semantic queries, new features and media typ ...

**Keywords:** Multimedia information retrieval, audio retrieval, human-computer interaction, image databases, image search, multimedia indexing, video retrieval

#### 6 Shape-based retrieval and analysis of 3D models



Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

7 Music: Approximate matching algorithms for music information retrieval using vocal input



Richard L. Kline, Ephraim P. Glinert

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available: [pdf\(165.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Effective use of multimedia collections requires efficient and intuitive methods of searching and browsing. This work considers databases which store music and explores how these may best be searched by providing input queries in some musical form. For the average person, humming several notes of the desired melody is the most straightforward method for providing this input, but such input is very likely to contain several errors. Previously proposed implementations of so-called *query-by-humm* ...

**Keywords:** *music information retrieval, query by humming*

8 Multimedia Information Processing: Content-based retrieval of MP3 music objects



Chih-Chin Liu, Po-Jun Tsai

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available: [pdf\(3.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, the searching and indexing techniques for multimedia data are getting more attention in the area of multimedia databases. As many research works were done on the content-based retrieval of image and video data, less attention was received to the content-based retrieval of audio data. In this paper, we propose an approach to retrieve MP3 music objects based on their content. In our approach, the coefficients extracting from the output of the polyphase filters are used to compute ...

**Keywords:** MP3 databases, MP3 indexing, content-based music data retrieval, music databases, music feature extraction

9 Multimedia: Peer-to-peer architecture for content-based music retrieval on acoustic data



Cheng Yang

May 2003 **Proceedings of the 12th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: [pdf\(146.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In traditional peer-to-peer search networks, operations focus on properly labeled files such as music or video, and the actual search is often limited to text tags. The explosive growth of available multimedia documents in recent years calls for more flexible search capabilities, namely search by content. Most content-based search algorithms are computationally intensive, making them inappropriate for a peer-to-peer environment. In this paper, we discuss a content-based music retrieval algorithm ...

**Keywords:** acoustic data, content-based music retrieval, distributed, load balancing, peer-to-peer, resource pooling

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F Lakin, J Wambaugh, L Leifer, D Cannon, C Sivard - The Visual Computer, 1989 - Springer

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ER Pedersen, T Sokoler - Proceedings of the conference on Designing interactive ..., 2000 - portal.acm.org

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P Ljungstrand, J Redström, LE Holmquist - Proceedings of DARE 2000 on Designing augmented reality ..., 2000 - portal.acm.org

... 18.Nelson, L., Ichimura, S. & Pedersen, ER (1999). Pal- ette: A **Paper Interface for Giving Presentations**. In: Proceedings of CHI '99, pp. 354-361.ACM Press. ...

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B Ullmer, H Ishii - IBM Systems Journal, 2000 - idemployee.id.tue.nl

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C Decurtins, MC Norrie, B Signer - New Review of Hypermedia and Multimedia, 2003 - Taylor &amp; Francis

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### Pen-like'natural graphic gesture capture disposal, based on a micro-system

C Joguet, Y Caritu, D David - Smart Objects Conference, Grenoble France, May, 2003 - grenoble-soc.com

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C Decurtins, MC Norrie, B Signer - Proceedings of the twelfth international conference on ..., 2003 - portal.acm.org

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J Johnson - CSC Leading Edge Forum. Retrieved on, 2001 - csc.com

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CM Bowman, PB Danzig, DR Hardy, U Manber, MF ... - Computer Networks and ISDN Systems, 1995 - cs.ust.hk

... indexes and flexible **interactive** queries, while ... discovery, distributed systems, and information **retrieval**. ... of algorithms, **pattern matching**, computer networks ...

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**The VISTA Project: An Agent Architecture for Virtual Interactive Storytelling**

E Figa, P Tarau - TIDSE, 2003 - logic.csci.unt.edu

... content of multimedia for improved information access and **retrieval**. 9 ... **Interactive Storytelling: People, Stories, and Games**. ... **AIML Pattern Matching Simplified**. ...

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**The boomerang white paper: a page as you like it - group of 2 »**

CE Dyreson, AM Sloane - Proceedings of the WWW4 Conference, 1995 - citeseer.ist.psu.edu

... 12] uses page templates and string **pattern matching** based rules ... Knowledge Structuring,

Navigation and **Retrieval** in a ... More All 0.2: **Interactive Web Applications** ...

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CH Wu, LSL Yeh, H Huang, L Arminski, J Castro- ... - Nucleic Acids Research, 2003 - nar.oupjournals.org

... discovery, with functionalities for **interactive** queries, combinations ... Direct entry report **retrieval** is based on ... and FASTA search, **pattern match**, hidden Markov ...

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**Black Box Approach to Image Feature Manipulation used by Visual Information Retrieval Engines - group of 6 »**

K Shah, A Sheth, S Mudumbai - Second IEEE Metadata Conference, 1997 - lsd.cs.uga.edu

... An ideal **pattern matching** should satisfy the following requirements: ... query on a texture

**pattern** from a ... Management System for the **Interactive Retrieval** of Faces. ...

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L Bettini, R de Nicola, R Pugliese, GL Ferrari - ... : Infrastructure for Collaborative Enterprises, 1998.(WET ..., 1998 - ieeeexplore.ieee.org

**Interactive Mobile Agents in XK** ... in(t)@I because the tuple t1 selected by **pattern-matching** is not ... These methods are used in the method **match** of the class Tuple ...

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ML Creech, DF Freeze, ML Griss - Proceedings of the third annual ACM conference on

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neighbor (NN) **search** to **retrieve** the shapes that are most. similar to a novel query. ... the **image coordinates** themselves, starting with a **grid** res- ...

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and then employ sublinear time approximate NN **search** to **retrieve** the shapes ... and ending with a **grid** resolution where each. **image coordinate** receives its ...

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Therefore, directly **matching** word **images** in a document **image** is an alternative way to **retrieve** information from the document. ...

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[A Real-Time Matching System for Large Fingerprint Databases](#)

Orenstein and Manola [31] describe an **image database** for spatial and temporal ... Using Splash 2, the point **pattern matching** under the conditions described ...

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and **match** by **pattern** within the binary data is being explored and will be added as the project continues to. develop. The results of the **search** from the ...

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These two numbers, along with peak frequency and total text. energy, are used to define a **search** window in the space of **database images**. 3 Detailed **Matching** ...

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cells of a fixed **grid** can effectively **retrieve** visually similar documents, ... **database images**. 3 Detailed **Matching**. Since visually different documents can ...

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local greyvalue invariants for image retrieval

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Abstract. [This paper addresses the problem of retrieving ...

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developed **tablet digitizer**. In the present paper we propose another approach, ...

**transformation** task converts the **coordinate** data into a ...

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will greatly simplify conversion of highly non-linear sys-. tems. Although emphasis is given

to ... termination of **digitizer coordinates** to within 0.2 mm, ...

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**Ink Markup Language (InkML)**

For example, the X and Y **coordinates** in an electromagnetic **digitizer** are ... An affine mapping consists of a **linear transformation** (multiplication by a ...

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UniPen Data. • 240 symbols and a number of formulas. ...

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**tablet**: A small **digitizer** used for interactive work on a graphics ... **vector**: A **coordinate**-based data structure commonly used to represent **linear** geographic ...

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gion approximation technique, as well as the **pattern matching**. process for localizing the **salient features**. In Section IV, the ...

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the **salient features** and general shape variations at the. same time, while noises are filtered ... [13] S. Umeyama, "Parameterized Point **Pattern Matching** ...

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... domain of color face images, based on localizing **salient** facial **features**. ... of Facial Images Based on **Salient Geometric Pattern Matching** (2000) (Make ...

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**Features** and Design Criteria in the **Pattern Matching** code ... the important **features**, and will care less about less **salient features** which do not **match**. ...

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**salient features** by altering the parameters of the parabolas. ... The **pattern matching** snake is illustrated in Figure 4. Lip edge. Scan line ...

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